



Standard Test Methods for Pitting and Crevice Corrosion Resistance of Stainless Steels and Related Alloys by Use of Ferric Chloride Solution¹

This standard is issued under the fixed designation G 48; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 These test methods cover procedures for the determination of the resistance of stainless steels and related alloys to pitting and crevice corrosion (see Terminology [G 15](#)) when exposed to oxidizing chloride environments. Six procedures are described and identified as Methods A, B, C, D, E, and F.

1.1.1 *Method A*—Ferric chloride pitting test.

1.1.2 *Method B*—Ferric chloride crevice test.

1.1.3 *Method C*—Critical pitting temperature test for nickel-base and chromium-bearing alloys.

1.1.4 *Method D*—Critical crevice temperature test for nickel-base and chromium-bearing alloys.

1.1.5 *Method E*—Critical pitting temperature test for stainless steels.

1.1.6 *Method F*—Critical crevice temperature test for stainless steels.

1.2 Method A is designed to determine the relative pitting resistance of stainless steels and nickel-base, chromium-bearing alloys, whereas Method B can be used for determining both the pitting and crevice corrosion resistance of these alloys. Methods C, D, E and F allow for a ranking of alloys by minimum (critical) temperature to cause initiation of pitting corrosion and crevice corrosion, respectively, of stainless steels, nickel-base and chromium-bearing alloys in a standard ferric chloride solution.

1.3 These tests may be used to determine the effects of alloying additives, heat treatment, and surface finishes on pitting and crevice corrosion resistance.

1.4 The values stated in SI units are to be regarded as the standard. Other units are given in parentheses for information only.

1.5 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

¹ These test methods are under the jurisdiction of ASTM Committee G01 on Corrosion of Metals and are the direct responsibility of Subcommittee G01.05 on Laboratory Corrosion Tests.

Current edition approved May 1, 2009. Published May 2009. Originally approved in 1976. Last previous edition approved in 2003 as G 48–03.

2. Referenced Documents

2.1 *ASTM Standards*:²

[A 262](#) Practices for Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels

[D 1193](#) Specification for Reagent Water

[E 691](#) Practice for Conducting an Interlaboratory Study to Determine the Precision of a Test Method

[E 1338](#) Guide for Identification of Metals and Alloys in Computerized Material Property Databases

[G 1](#) Practice for Preparing, Cleaning, and Evaluating Corrosion Test Specimens

[G 15](#) Terminology Relating to Corrosion and Corrosion Testing

[G 46](#) Guide for Examination and Evaluation of Pitting Corrosion

[G 107](#) Guide for Formats for Collection and Compilation of Corrosion Data for Metals for Computerized Database Input

3. Terminology

3.1 *Definitions of Terms Specific to This Standard:*

3.1.1 *critical crevice temperature, n* —the minimum temperature ($^{\circ}\text{C}$) to produce crevice attack at least 0.025-mm (0.001-in.) deep on the bold surface of the specimen beneath the crevice washer, edge attack ignored.

3.1.2 *critical pitting temperature, n* —the minimum temperature ($^{\circ}\text{C}$) to produce pitting attack at least 0.025-mm (0.001-in.) deep on the bold surface of the specimen, edge attack ignored.

3.2 The terminology used herein, if not specifically defined otherwise, shall be in accordance with Terminology [G 15](#). Definitions provided herein and not given in Terminology [G 15](#) are limited only to this standard.

4. Significance and Use

4.1 These test methods describe laboratory tests for comparing the resistance of stainless steels and related alloys to the

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

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Lingjun Ying



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Green Corrosion Inhibitors V. S. Sastri,2012-02-14 A book to cover developments in corrosion inhibitors is long overdue This has been addressed by Dr Sastri in a book which presents fundamental aspects of corrosion inhibition historical developments and the industrial applications of inhibitors The book deals with the electrochemical principles and chemical aspects of corrosion inhibition such as stability of metal complexes the Hammett equation hard and soft acid and base principle quantum chemical aspects and Hansch s model and also with the various surface analysis techniques e g XPS Auger SIMS and Raman spectroscopy that are used in industry for corrosion inhibition The applications of corrosion inhibition are wide ranging Examples given in this book include oil and gas wells petrochemical plants steel reinforced cement water cooling systems and many more The final chapters discuss economic and environmental considerations which are now of prime importance The book is written for researchers in academia and industry practicing corrosion engineers and students of materials science engineering and applied chemistry

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Bioprocessing Piping and Equipment Design William M. (Bill) Huitt,2016-10-24 The only comprehensive and authoritative reference guide to the ASME Bioprocessing Piping and Equipment BPE standard This is a companion guide to the ASME Bioprocessing Piping and Equipment BPE Standard and explains what lies behind many of the requirements and recommendations within that industry standard Following an introductory narrative to the Standard s early history industry related codes and standards are explained the design and engineering aspects cover construction materials both metallic and nonmetallic then components fabrication assembly and installation of piping systems are explored Examination Inspection and Testing then precede the ASME BPE certification process concluding with a discussion on system design The author draws on many years experience

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Table of Contents **Astm G48 20edition Changes**

1. Understanding the eBook **Astm G48 20edition Changes**
 - The Rise of Digital Reading **Astm G48 20edition Changes**
 - Advantages of eBooks Over Traditional Books
2. Identifying **Astm G48 20edition Changes**
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an **Astm G48 20edition Changes**
 - User-Friendly Interface
4. Exploring eBook Recommendations from **Astm G48 20edition Changes**
 - Personalized Recommendations
 - **Astm G48 20edition Changes** User Reviews and Ratings
 - **Astm G48 20edition Changes** and Bestseller Lists

5. Accessing Astm G48 20edition Changes Free and Paid eBooks
 - Astm G48 20edition Changes Public Domain eBooks
 - Astm G48 20edition Changes eBook Subscription Services
 - Astm G48 20edition Changes Budget-Friendly Options
6. Navigating Astm G48 20edition Changes eBook Formats
 - ePub, PDF, MOBI, and More
 - Astm G48 20edition Changes Compatibility with Devices
 - Astm G48 20edition Changes Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Astm G48 20edition Changes
 - Highlighting and Note-Taking Astm G48 20edition Changes
 - Interactive Elements Astm G48 20edition Changes
8. Staying Engaged with Astm G48 20edition Changes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Astm G48 20edition Changes
9. Balancing eBooks and Physical Books Astm G48 20edition Changes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Astm G48 20edition Changes
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Astm G48 20edition Changes
 - Setting Reading Goals Astm G48 20edition Changes
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Astm G48 20edition Changes
 - Fact-Checking eBook Content of Astm G48 20edition Changes
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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